

Title (en)

Process for making Raney nickel coated cathode, and product thereof.

Title (de)

Verfahren zur Herstellung einer mit Raney-Nickel überzogenen Kathode und danach erhaltenes Erzeugnis.

Title (fr)

Procédé pour la fabrication d'une cathode revêtue de nickel de Raney et produit ainsi obtenu.

Publication

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Application

EP 83304386 A 19830728

Priority

US 40330682 A 19820730

Abstract (en)

Raney-nickel coated cathodes are made by plasma spraying a nickel/aluminum composition containing 56 to 59% by wt. nickel onto an electrically conductive cathode substrate, and activating the coated substance by leaching aluminum from the coating with caustic. The activated cathode is especially useful in chloralkali processes, as it operates at low hydrogen overvoltage, and is durable against spalling and flaking.

IPC 1-7

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IPC 8 full level

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CPC (source: EP KR)

C23C 4/18 (2013.01 - EP KR); **C23F 1/36** (2013.01 - EP KR); **C25B 11/052** (2021.01 - KR); **C25B 11/073** (2021.01 - EP KR)

Citation (search report)

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- CH 489617 A 19700430 - VARTA AG [DE]
- US 4116804 A 19780926 - NEEDES CHRISTOPHER RODERICK S

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